



PTO/SB/08A (07-05)
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1

of 6

Complete if Known

Application Number	10/791,491
Filing Date	March 2, 2004
First Named Inventor	Wang
Art Unit	1773
Examiner Name	Le, Hoa T
Attorney Docket Number	P02082US1A

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
HL		US- 3,972,963	8/3/1976	Schwab et al.	
		US- 4,233,409	11/11/1980	Bulkley	
		US- 4,247,434	1/27/1981	Vanderhoff et al.	
		US- 4,463,129	7/31/1984	Shinada et al.	
		US- 4,543,403	9/24/1985	Isayama et al.	
		US- 4,788,254	11/29/1988	Kawakubo et al.	
		US- 4,829,130	5/9/1989	Licchelli et al.	
		US- 4,837,274	6/6/1989	Kawakubo et al.	
		US- 4,837,401	6/6/1989	Hirose et al.	
		US- 4,870,144	9/26/1989	Noda et al.	
		US- 4,904,730	2/27/1990	Moore et al.	
		US- 4,904,732	2/27/1990	Iwahara et al.	
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		US- 5,075,377	12/24/1991	Kawakubo et al.	
		US- 5,120,379	6/9/1992	Noda et al.	
		US- 5,514,753	5/7/1996	Ozawa et al.	
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		US- 5,219,945	6/15/1993	Dicker et al.	
HT		US- 5,237,015	8/17/1993	Urban	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
HL		WO 01/87999A2	11/22/2000	Faust et al.		
HL		WO 02/100936	12/19/2002	Exxon Chem.		
HL		WO 02/31002A1	4/18/2002	UAB Res. Found.		
HL		WO 91/04992	4/18/1991	Exxon Chem.		

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HL		US- 5,247,021	9/21/1993	Fujisawa et al.	
		US- 5,262,502	11/16/1993	Fujisawa et al.	
		US- 5,290,873	3/1/1994	Noda et al.	
		US- 5,331,035	7/19/1994	Hall	
		US- 5,336,712	8/9/1994	Austgen, Jr. et al.	
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		US- 5,688,856	11/18/1997	Austgen, Jr. et al.	
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		US- 5,733,975	3/31/1998	Aoyama et al.	
		US- 5,739,267	4/14/1998	Fujisawa et al.	
		US- 5,777,037	7/7/1998	Yamanaka et al.	
HL		US- 5,811,501	9/22/1998	Chiba et al.	

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HL		WO2004/058874	7/15/2004	Bridgestone Corp.		
HL		EP 0 265 142 A2	4/27/1988	Rohm and Haas		
HL		EP 0 590 491 A2	4/6/1994	Bridgestone		
HL		EP 1 099 728 A1	5/16/2001	Chiba et al.		

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HL		US- 5,834,563	11/10/1998	Kimura et al.	
		US- 5,849,847	12/15/1998	Quirk	
		US- 5,855,972	1/5/1999	Kaeding	
		US- 5,883,173	3/16/1999	Elspass et al.	
		US- 6,011,116	1/4/2000	Aoyama et al.	
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		US- 6,087,016	7/11/2000	Feeney et al.	
		US- 6,087,456	7/11/2000	Sakaguchi et al.	
		US- 6,106,953	8/22/2000	Zimmermann et al.	
		US- 6,117,932	9/12/2000	Hasegawa et al.	
		US- 6,121,379	9/19/2000	Yamanaka et al.	
		US- 6,147,151	11/14/2000	Fukumoto et al.	
		US- 6,268,451	7/31/2001	Faust et al.	
		US- 6,277,304	8/21/2001	Wei et al.	
	US- 6,348,546	2/19/2002	Hiiro et al.		
HT		US- 6,573,330	6/3/2003	Fujikake et al.	

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HL		EP 1 134 251 A1	9/19/2001	Okamoto et al.		
HL		JP 08-199062	8/6/1996	Mitsubishi Chem.		

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HL		US-	6,598,645	7/29/2003	Larson	
		US-	6,750,297	6/15/2004	Yeu et al.	
		US-	6,759,464	7/6/2004	Albanl et al.	
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		US-	6,872,785	3/29/2005	Wang et al.	
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		US-	2002/0095008	7/18/2002	Heimrich et al.	
		US-	2002/0144401	10/10/2002	Noqueroles Vines et al.	
		US-	2003/0004250	1/2/2003	Albanl et al.	
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		US-	2004/0143084	7/22/2004	Wang	
		US-	2004/0198917	10/7/2004	Castner	
		US-	2005/0101743	5/12/2005	Stacy et al.	
		US-	2005/0203248	9/15/2005	Zheng et al.	
	US-	6,706,813	3/16/2004	Chiba et al.		
HL		US-	6,060,549	5/9/2000	Li et al.	
		US-				

FOREIGN PATENT DOCUMENTS

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
HL		Star Polymers by Immobilizing Functional Block Copolymers, by Koji Ishizu, Tokyo Institute of Technology, Meguro-ku, Tokyo, Japan, Star and Hyperbranched Polymers, 1999, ISBN 0-8247-1986-7	
		Formation of Worm-like Micelles from a Polystyrene-Polybutadiene-Polystyrene Block Copolymer in Ethyl Acetate, Canham et al., J.C.S. Faraday I, 1980, 76, 1857-1867	
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HL		Rheology of Nanocomposites Based on Layered Silicates and Polyamide-12, B. Hoffman et al., Colloid Polm. Sci. 278:629-636 (2000)	
		Quaternary Ammonium Compounds, Encyclopedia of Chem Tech., 4th Ed. Vol. 20, 1996, Wiley & Sons, pp. 739-767	
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		Ultrahydrophobic and Ultrayophobic Surfaces: Some Comments and Examples, Wei Chen et al., The ACS Journal of Surfaces and Colloids, May 11, 1999, Vol. 15, No. 10, pp 3395-3399, Polymer Science and Engineering Dept., Univ. of MA, Amherst, MA 01003	
		Super-Repellent Composite Fluoropolymer Surfaces, S.R. Coulson, I. Woodward, J.P.S. Badyal, The Journal of Physical Chemistry B, Vol. 104, No. 37, Sept. 21, 2000, pp. 8836-8840, Dept. of Chemistry, Science Laboratories, Durham University, Durham, DH1 3LE, England, U.K.	
HL		Transformation of a Simple Plastic into a Superhydrophobic Surface, H. Yildirim Erbil et al., Science Vol. 299, Feb. 28, 2003, pp. 1377-1380	

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